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1 Conversation-based mail

 Douglas E. Comer, Larry L. Peterson
September 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(1.67 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new message communication paradigm based on conversations that provides an alternative to memo- and conference-based mail is described. A conversation-based message system groups messages into conversations, and orders messages within a conversation according to the context in which they were written. The message context relation leads to an efficient implementation of conversations in a distributed environment and suppor ...

2 A structural view of the Cedar programming environment

 Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(6.32 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

3 An experimental multimedia mail system

 Jonathan B. Postel, Gregory G. Finn, Alan R. Katz, Joyce K. Reynolds
January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(1.50 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

A computer-based experimental multimedia mail system that allows the user to read, create, edit, send, and receive messages containing text, images, and voice is discussed.

4 Multimedia document presentation, information extraction, and document formation in  **MINOS: a model and a system**

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(3.16 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

5 Neuro-fuzzy applications: Active electronic mail  S. Karnouskos, A. VasilakosMarch 2002 **Proceedings of the 2002 ACM symposium on Applied computing****Publisher:** ACM PressFull text available:  [pdf\(532.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network infrastructures have evolved tremendously over the last years, offering new capabilities to the applications in higher levels. Email is a widely used communication tool that could benefit of an intelligent and active underlying network in order to support sophisticated services. We explore in this paper an infrastructure based on intelligent mobile agents and active networks, and point out how and where advanced features can be introduced to our current passive email platform in order to ...

Keywords: active networks, computational intelligence, email, intelligent mobile agents

6 Notable computer networks  John S. Quarterman, Josiah C. HoskinsOctober 1986 **Communications of the ACM**, Volume 29 Issue 10**Publisher:** ACM PressFull text available:  [pdf\(4.66 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

7 Special issue: AI in engineering  D. Sriram, R. JoobhaniApril 1985 **ACM SIGART Bulletin**, Issue 92**Publisher:** ACM PressFull text available:  [pdf\(8.79 MB\)](#)Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

8 Personal distributed computing: the Alto and Ethernet software 

Butler Lampson

January 1986 **Proceedings of the ACM Conference on The history of personal**

workstations

 **Publisher:** ACM Press

Full text available:  [pdf\(3.00 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

9 Level II technical support in a distributed computing environment 

 Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

10 Risks to the public: Risks to the public in computers and related systems 

 Peter G. Neumann

May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.92 MB\)](#)

Additional Information: [full citation](#)

11 Multimedia document architecture (panel session) 

 Stephen Bulick, Terry Crowley, Lester Ludwig, Jonathan Rosenberg

August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Publisher: ACM Press

Full text available:  [pdf\(4.35 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

12 Groupware: some issues and experiences 

 Clarence A. Ellis, Simon J. Gibbs, Gail Rein

January 1991 **Communications of the ACM**, Volume 34 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(7.22 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Work group structures and computer support: a field experiment 

 J. D. Eveland, T. K. Bikson

October 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.74 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

It is frequently suggested that work groups that have computer technology to support activities such as text editing, data manipulation, and communication develop systematically different structures and working processes from groups that rely on more conventional technologies such as memos, phone calls, and meetings. However, cross-sectional or retrospective research designs do not allow this hypothesis to be tested with

much power. This field experiment created two task forces, each compos ...

14 Interactive Editing Systems: Part II

 Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available:  pdf(9.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



15 Address translation in telecommunication features

 Pamela Zave
January 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available:  pdf(378.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Address translation causes a wide variety of interactions among telecommunication features. This article begins with a formal model of address translation and its effects, and with principles for understanding how features should interact in the presence of address translation. There is a simple and intuitive set of constraints on feature behavior so that features will interact according to the principles. This scheme (called "ideal address translation") has provable properties, is modular (expl ...



Keywords: Component architecture, feature interaction, formal methods, network addressing, network protocols, network security, requirements, telecommunications

16 An open architecture for next-generation telecommunication services

 Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  pdf(237.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencies ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

17 ObjectGlobe: Ubiquitous query processing on the Internet

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzam, K. Stocker
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(251.44 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



We present the design of ObjectGlobe, a distributed and open query processor for

Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data and query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

18 Open-vocabulary speech indexing for voice and video mail retrieval 

 M. G. Brown, J. T. Foote, G. J. F. Jones, K. Spärck Jones, S. J. Young
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  [pdf\(1.82 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: audio indexing, browsing, content-based retrieval, information retrieval, speech recognition, word spotting

19 ABSTRACTS OF INTEREST 

 Susanne M. Humphrey, Ben Shneiderman
July 1993 **ACM SIGCHI Bulletin**, Volume 25 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.00 MB\)](#) Additional Information: [full citation](#), [abstract](#)

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20 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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